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FOCAL LENGTH DISPERSION COMPENSATION FOR FIELD CURVATURE

ABSTRACT OF THE DISCLOSURE

An optical arrangement and method are provided for receiving a light beam

having a plurality of spectral bands and directing subsets of the spectral bands along optical

paths to respective optical elements. The light beam is received at an input port. The optical

which respective optical elements. The light beam is received at an input port. The optical

elements are configured as a substantially planar array. A dispersive element is configured to

any what is great and a substantially planar array. A dispersive element is configured to

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any what is great and in a substantially planar array. A dispersive element is configured to

any what is great and in a plurality of angularly separated

beams that correspond to the plurality of spectral bands. A first focusing element is disposed

with respect to the dispersive element and with respect to the array of optical elements such

that dispersion in the focal distance of the first focusing element for different angularly

separated beams compensates for field curvature aberration eaused by the first focusing

element.

Variation of focal length with wavelength of the separated

beams is compensated by the first focusing element for different angularly

separated beams compensates for field curvature aberration eaused by the first focusing

elements are received to the substantial planar array.

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